

Fig. 1

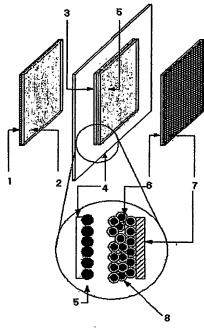
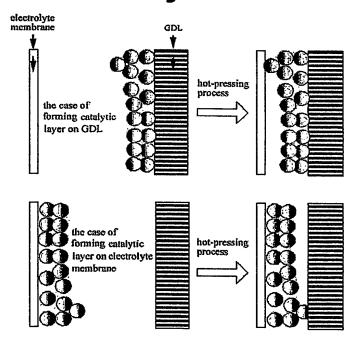
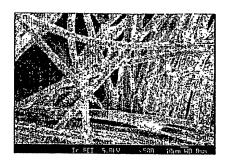


Fig. 2



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Fig. 3



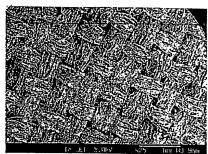
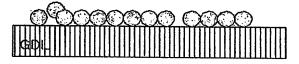


Fig. 4





catalyst particle participating in reaction

catalyst particle not participating in reaction

A) dilute catalyst ink

B) think catalyst ink

Fig.

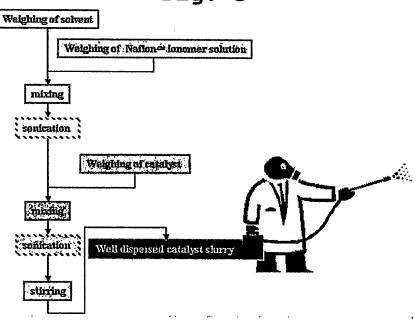




Fig. 6

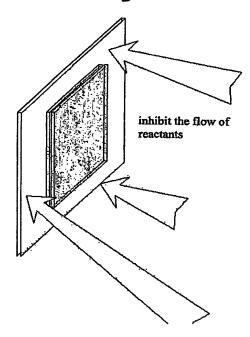


Fig. 7

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Fig. 8

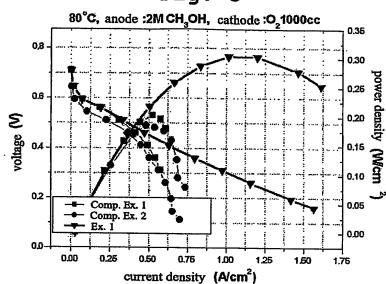
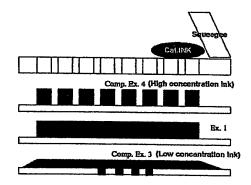


Fig. 9









Ex. 1(1000cPs)



Comp. Ex. 4(15000cPs)

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Fig. 10

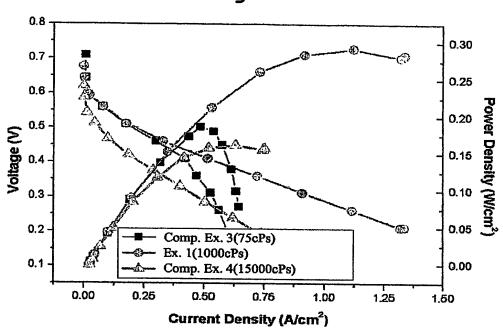
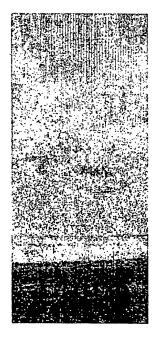
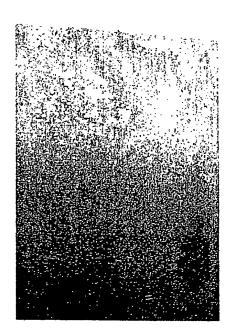


Fig. 11





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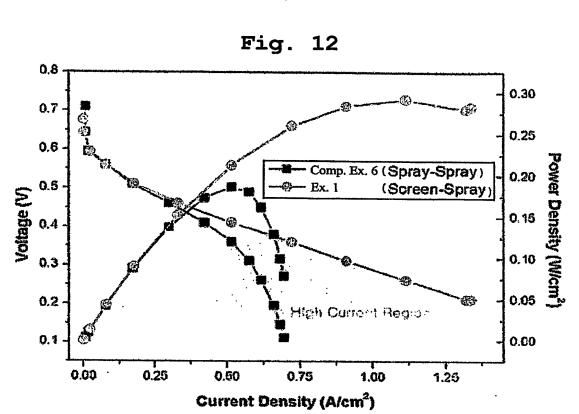
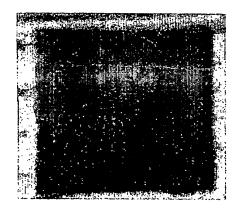


Fig. 13





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Fig. 14

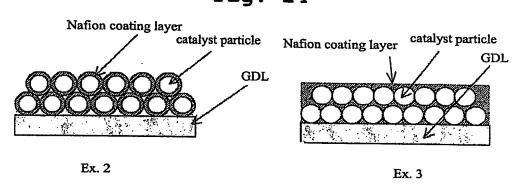


Fig. 15

